



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live.*

Joseph E. Kernan  
Governor

Lori F. Kaplan  
Commissioner

October 17, 2003

100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, Indiana 46206-6015  
(317) 232-8603  
(800) 451-6027  
[www.in.gov/idem](http://www.in.gov/idem)

TO: Interested Parties / Applicant

RE: Peerless Pottery, Inc. / 147-17424-00010

FROM: Paul Dubenetzky  
Chief, Permits Branch  
Office of Air Quality

## Notice of Decision: Approval - Effective Immediately

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to IC 13-15-5-3, this permit is effective immediately, unless a petition for stay of effectiveness is filed and granted according to IC 13-15-6-3, and may be revoked or modified in accordance with the provisions of IC 13-15-7-1.

If you wish to challenge this decision, IC 4-21.5-3 and IC 13-15-6-1 require that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days of the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures  
FNPER.dot 9/16/03



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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October 17, 2003

Mr. Stanley Weaver  
Peerless Pottery, Inc.  
P. O. Box 145,  
Rockport, Indiana 47635

Re: 147-17424  
First Significant Permit Revision to  
FESOP 147-7890-00010

Dear Mr. Weaver:

Peerless Pottery, Inc. was issued a permit on December 12, 1997 for a vitreous china plumbing fixtures manufacturing plant. A letter requesting changes to this permit was received on June 16, 2003. Pursuant to the provisions of 326 IAC 2-8-11.1 a significant permit revision to this permit is hereby approved as described in the attached Technical Support Document.

The changes listed below have been made to the Federally Enforceable State Operating Permit (F147-7890-00010). Bolded language has been added and the language with a line through it has been deleted.

## A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

- (a) two (2) 3.92 million British thermal units per hour natural gas fired firing kilns, identified as K-1 and K-2, each with a maximum capacity of processing 0.76 tons of ceramic per hour, and each exhausting through two (2) stacks (ID Nos. B10CS1 and B10CS2 for K-1, ID Nos. B10BS7 and B10BS9 for K-2);
- (b) one (1) 28 million British thermal units per hour natural gas fired firing/refiring kiln, identified as RK-1, with a maximum capacity of firing 0.77 tons of ceramic per hour or refiring 0.578 tons of ceramic per hour, and exhausting through two (2) stacks (ID Nos. B10CS3 and B10CS4);
- (c) one (1) 20 million British thermal units per hour natural gas fired firing kiln, identified as K-4, with a maximum capacity of processing 2.59 tons of ceramic per hour, and exhausting through two (2) stacks (ID Nos. B10aS1 and B10aS2);
- (d) one (1) tank casting and scraping operation, identified as B2P3T, with a maximum capacity of processing 133 tanks per hour, located in Building B2;
- (e) one (1) bowl casting and scraping operation, identified as B3P3B, with a maximum capacity of processing 288 bowls per hour, located in Building B3;
- (f) one (1) urinal casting and scraping operation, identified as B4P3U, with a maximum capacity of processing 8 urinals per hour, located in Building B4;
- (g) one (1) tank casting and scraping operation, identified as B4P3T, with a maximum capacity of processing 165 tanks per hour, located in Building B4;
- (h) one (1) lavatory casting and scraping operation, identified as B4P3L, with a maximum capacity of processing 66.2 lavatories per hour, located in Building B4;
- (i) one (1) bowl casting and scraping operation, identified as B4P3B, with a maximum capacity of processing 56 bowls per hour, located in Building B4;
- (j) one (1) manual glaze spray booth, identified as B7P5M1, with a maximum capacity of spraying 450 pounds of glaze per hour, using a baghouse, identified as B7C2, for overspray control, exhausting at one

- (1) stack (ID No. B7);
- (k) one (1) manual glaze spray booth, identified as B7P5M2, with a maximum capacity of spraying 450 pounds of glaze per hour, using a baghouse, identified as B7C3, for overspray control, and exhausting at one (1) stack (ID No. B7);
- (l) one (1) double automated glaze spray booth, identified as B7P5A1, with a maximum capacity of spraying 2550 pounds of glaze per hour, using a baghouse, identified as B7C5, for overspray control, and exhausting at one (1) stack (ID No. B7S22);
- (m) one (1) automated glaze spray booth, identified as B7P5A2, with a maximum capacity of spraying 1275 pounds of glaze per hour, using a waterwash for overspray control, and exhausting at one (1) stack (ID No. B7S1); ~~and~~
- (n) one (1) automated glaze spray booth, identified as B7P5A3, with a maximum capacity of spraying 1275 pounds of glaze per hour, using a waterwash for overspray control, and exhausting at one (1) stack (ID No. B7S2); ~~and~~
- (o) one (1) double automated glaze spray booth, identified as B7P5A4, with a maximum capacity of spraying 2550 pounds of glaze per hour, using a baghouse, identified as B7C5, for overspray control, and exhausting at one (1) stack (ID No. B7S22).**

## SECTION D.1

## FACILITY OPERATION CONDITIONS

- (a) two (2) 3.92 million British thermal units per hour natural gas fired firing kilns, identified as K-1 and K-2, each with a maximum capacity of processing 0.76 tons of ceramic per hour, and each exhausting through two (2) stacks (ID Nos. B10CS1 and B10CS2 for K-1, ID Nos. B10BS7 and B10BS9 for K-2);
- (b) one (1) 28 million British thermal units per hour natural gas fired firing/refiring kiln, identified as RK-1, with a maximum capacity of firing 0.77 tons of ceramic per hour or refiring 0.578 tons of ceramic per hour, and exhausting through two (2) stacks (ID Nos. B10CS3 and B10CS4);
- (c) one (1) 20 million British thermal units per hour natural gas fired firing kiln, identified as K-4, with a maximum capacity of processing 2.59 tons of ceramic per hour, and exhausting through two (2) stacks (ID Nos. B10aS1 and B10aS2);
- (d) one (1) tank casting and scraping operation, identified as B2P3T, with a maximum capacity of processing 133 tanks per hour, located in Building B2;
- (e) one (1) bowl casting and scraping operation, identified as B3P3B, with a maximum capacity of processing 288 bowls per hour, located in Building B3;
- (f) one (1) urinal casting and scraping operation, identified as B4P3U, with a maximum capacity of processing 8 urinals per hour, located in Building B4;
- (g) one (1) tank casting and scraping operation, identified as B4P3T, with a maximum capacity of processing 165 tanks per hour, located in Building B4;
- (h) one (1) lavatory casting and scraping operation, identified as B4P3L, with a maximum capacity of processing 66.2 lavatories per hour, located in Building B4;
- (i) one (1) bowl casting and scraping operation, identified as B4P3B, with a maximum capacity of processing 56 bowls per hour, located in Building B4;
- (j) one (1) manual glaze spray booth, identified as B7P5M1, with a maximum capacity of spraying 450 pounds of glaze per hour, using a baghouse, identified as B7C2, for overspray control, exhausting at one (1) stack (ID No. B7);
- (k) one (1) manual glaze spray booth, identified as B7P5M2, with a maximum capacity of spraying 450 pounds of glaze per hour, using a baghouse, identified as B7C3, for overspray control, and exhausting at one (1) stack (ID No. B7);
- (l) one (1) double automated glaze spray booth, identified as B7P5A1, with a maximum capacity of spraying 2550 pounds of glaze per hour, using a baghouse, identified as B7C5, for overspray control, and exhausting at one (1) stack (ID No. B7S22);
- (m) one (1) automated glaze spray booth, identified as B7P5A2, with a maximum capacity of spraying 1275 pounds of glaze per hour, using a waterwash for overspray control, and exhausting at one (1) stack (ID No. B7S1); ~~and~~
- (n) one (1) automated glaze spray booth, identified as B7P5A3, with a maximum capacity of spraying 1275 pounds of glaze per hour, using a waterwash for overspray control, and exhausting at one (1) stack (ID No. B7S2); ~~and~~
- (o) one (1) double automated glaze spray booth, identified as B7P5A4, with a maximum capacity of spraying 2550 pounds of glaze per hour, using a baghouse, identified as B7C5, for overspray control, and exhausting at one (1) stack (ID No. B7S22).**



## Emission Limitations and Standards [326 IAC 2-8-4(1)]

### D.1.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (~~Process Operations~~)(**Particulate Emission Limitations for Manufacturing Processes**), the allowable **PM particulate** emission rates from the facilities covered under Section D.1 shall not exceed the emission rates listed below when the facilities are operated at the listed corresponding maximum process weight rate:

Source ID	Source Description	Allowable Emissions (lb/hr)	Maximum Process Weight Rate (ton/hr)
(a) K-1	Firing Natural Gas Fired Kiln	0.40	0.76
(a) K-2	Firing Natural Gas Fired Kiln	0.40	0.76
(b) RK-1	Firing/Refiring Natural Gas Fired Kiln	2.16	0.77
(c) K-4	Firing Natural Gas Fired Kiln	1.36	2.59
(d) B2P3T	Tank Casting Scraping	1.81	2.35
(e) B3P3B	Bowl Casting Scraping	10.35	4.67
(f) B4P3U	Urinal Casting Scraping	0.29	0.10
(g) B4P3T	Tank Casting Scraping	2.25	2.91
(h) B4P3L	Lavatory Casting Scraping	0.38	0.68
(i) B4P3B	Bowl Casting Scraping	2.01	0.91
(j) B7P5M1	Manual Glaze Booth	0.09	0.84
(k) B7P5M2	Manual Glaze Booth	0.09	0.84
(l) B7P5A1	Double Automated Glaze Booth	0.52	4.78
(m) B7P5A2	Automated Glaze Booth	3.90	2.39
(n) B7P5A3	Automated Glaze Booth	3.90	2.39
<b>(o) B7P5A4</b>	<b>Double Automated Glaze Booth</b>	<b>4.82</b>	<b>1.275</b>

## Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

### D.1.3 Visible Emissions Notations

- Daily-Once per shift** visible emission notations of the stack exhausts of all facilities covered under Section D.1 shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- The Preventive Maintenance Plan for these units shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

### D.1.4 Parametric Monitoring

The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the

glaze spray booths B7P5M1, B7P5M2, ~~and B7P5A1~~, **and B7P5A4** at least once ~~weekly~~ **per shift** when the glaze spraying processes in these booths are in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the baghouses shall be maintained within the range of 1.0 and 3.0 inches of water or a range established during the latest stack test. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

#### D.1.5 Baghouse Inspections

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~~An inspection shall be performed each calendar quarter of all bags controlling the facilities covered under Section D.1, excluding baghouses listed in D.1.4. All defective bags shall be replaced.~~

An inspection shall be performed in the last month of each calendar quarter of all bags controlling the facilities covered under D.1, when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

#### D.1.7 Raw Material (Clay) Usage

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~~Usage of clay, which is the main ingredient of the products at the source, shall not exceed 3,011 tons per month of dry clay. The raw material usage (dry clay) processed by this source shall be limited to 36,135 tons of dry clay per 12 consecutive month period. This limitation includes all equipment listed in Sections D.1 and D.2 of the FESOP.~~ Compliance with Operation Conditions D.1.1, D.1.7 and D.2.1 shall also render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70 Program) not applicable.

#### D.1.8 Record Keeping Requirements

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- (a) To document compliance with Condition D.1.3, the Permittee shall maintain records of ~~daily~~ **once per shift** visible emission notations of the stack exhausts of all facilities covered under Section D.1.

In addition, the Quarterly Report Form has been replaced with a new form which records dry clay usage on a 12 consecutive month period basis.

The following construction conditions are applicable to the proposed project:

1. General Construction Conditions  
The data and information supplied with the application shall be considered part of this source modification approval. Prior to any proposed change in construction which may affect the potential to emit (PTE) of the proposed project, the change must be approved by the Office of Air Quality (OAQ).
2. This approval to construct does not relieve the permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.
3. Effective Date of the Permit  
Pursuant to IC 13-15-5-3, this approval becomes effective upon its issuance.
4. Pursuant to 326 IAC 2-1.1-9 (Revocation), the Commissioner may revoke this approval if construction is not commenced within eighteen (18) months after receipt of this approval or if construction is suspended for a continuous period of one (1) year or more.
5. All requirements and conditions of this construction approval shall remain in effect unless modified in a manner consistent with procedures established pursuant to 326 IAC 2.

Pursuant to 326 IAC 2-8-11.1, this permit shall be revised by incorporating the significant permit revision into the permit. All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this modification and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Linda Quigley, c/o OAQ, 100 North Senate Avenue, P.O. Box 6015, Indianapolis, Indiana, 46206-6015, or call at (973) 575-2555, extension 3284.

Sincerely,

Original Signed by Paul Dubenetzky  
Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Quality

Attachments

LQ/EVP

cc: File - Spencer County  
U.S. EPA, Region V  
Spencer County Health Department  
Air Compliance Section Inspector - Scott Anslinger  
Compliance Data Section - Karen Ampil  
Administrative and Development  
Technical Support and Modeling - Michelle Boner



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**FEDERALLY ENFORCEABLE STATE  
OPERATING PERMIT (FESOP)  
OFFICE OF AIR QUALITY**

**Peerless Pottery, Inc.  
North Lincoln Avenue  
Rockport, Indiana 47635**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the facilities listed in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 and 326 IAC 2-1-3.2, as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F147-7890-00010	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date: December 12, 1997  Expiration Date: December 12, 2002

Administrative Amendment No.: 147-12985-00010, Issued January 12, 2001

First Significant Permit Revision No.: F147-17424-00010	Pages Affected: 5, 6, 7, 27, 28, 29, and 30
Issued by: Original Signed by Paul Dubenetzky Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: October 17, 2003

## SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ), and presented in the permit application.

### A.1 General Information [326 IAC 2-8-3(b)]

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The Permittee owns and operates a stationary vitreous china plumbing fixtures manufacturing plant.

Responsible Official: Peerless Pottery, Inc.  
Source Address: North Lincoln Avenue, Rockport, Indiana 47635  
Mailing Address: P. O. Box 145, Rockport, Indiana 47635  
SIC Code: 3261  
County Location: Spencer  
County Status: Attainment for all criteria pollutants  
Source Status: Federally Enforceable State Operating Permit (FESOP)  
Minor Source, under PSD

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

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This stationary source consists of the following emission units and pollution control devices:

- (a) two (2) 3.92 million British thermal units per hour natural gas fired firing kilns, identified as K-1 and K-2, each with a maximum capacity of processing 0.76 tons of ceramic per hour, and each exhausting through two (2) stacks (ID Nos. B10CS1 and B10CS2 for K-1, ID Nos. B10BS7 and B10BS9 for K-2);
- (b) one (1) 28 million British thermal units per hour natural gas fired firing/refiring kiln, identified as RK-1, with a maximum capacity of firing 0.77 tons of ceramic per hour or refiring 0.578 tons of ceramic per hour, and exhausting through two (2) stacks (ID Nos. B10CS3 and B10CS4);
- (c) one (1) 20 million British thermal units per hour natural gas fired firing kiln, identified as K-4, with a maximum capacity of processing 2.59 tons of ceramic per hour, and exhausting through two (2) stacks (ID Nos. B10aS1 and B10aS2);
- (d) one (1) tank casting and scraping operation, identified as B2P3T, with a maximum capacity of processing 133 tanks per hour, located in Building B2;
- (e) one (1) bowl casting and scraping operation, identified as B3P3B, with a maximum capacity of processing 288 bowls per hour, located in Building B3;
- (f) one (1) urinal casting and scraping operation, identified as B4P3U, with a maximum capacity of processing 8 urinals per hour, located in Building B4;
- (g) one (1) tank casting and scraping operation, identified as B4P3T, with a maximum capacity of processing 165 tanks per hour, located in Building B4;
- (h) one (1) lavatory casting and scraping operation, identified as B4P3L, with a maximum capacity of processing 66.2 lavatories per hour, located in Building B4;
- (i) one (1) bowl casting and scraping operation, identified as B4P3B, with a maximum capacity of processing 56 bowls per hour, located in Building B4;
- (j) one (1) manual glaze spray booth, identified as B7P5M1, with a maximum capacity of spraying 450 pounds of glaze per hour, using a baghouse, identified as B7C2, for overspray control, exhausting at one (1) stack (ID No. B7);
- (k) one (1) manual glaze spray booth, identified as B7P5M2, with a maximum capacity of spraying 450 pounds of glaze per hour, using a baghouse, identified as B7C3, for overspray control, and exhausting at one (1) stack (ID No. B7);
- (l) one (1) double automated glaze spray booth, identified as B7P5A1, with a maximum capacity of spraying 2550 pounds of glaze per hour, using a baghouse, identified as B7C5, for overspray control, and exhausting at one (1) stack (ID No. B7S22);

- (m) one (1) automated glaze spray booth, identified as B7P5A2, with a maximum capacity of spraying 1275 pounds of glaze per hour, using a waterwash for overspray control, and exhausting at one (1) stack (ID No. B7S1);
- (n) one (1) automated glaze spray booth, identified as B7P5A3, with a maximum capacity of spraying 1275 pounds of glaze per hour, using a waterwash for overspray control, and exhausting at one (1) stack (ID No. B7S2); and
- (o) one (1) double automated glaze spray booth, identified as B7P5A4, with a maximum capacity of spraying 2550 pounds of glaze per hour, using a baghouse, identified as B7C5, for overspray control, and exhausting at one (1) stack (ID No. B7S22).

A.3 Insignificant Activities [326 IAC 2-7-1(20)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(20):

- (a) one (1) natural gas fired dryer, with a rated capacity of 2.5 million British thermal units per hour;
- (b) application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings;
- (c) degreasing operations that do not exceed 145 gallons per 12 months;
- (d) closed loop heating and cooling systems;
- (e) activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1 percent by volume;
- (f) water based adhesives that are less than or equal to 5 percent by volume of VOCs excluding HAPs;
- (g) replacement or repair of electrostatic precipitators, bags in baghouses and filters in other air filtration equipment;
- (h) paved and unpaved roads and parking lots with public access;
- (i) grinding and machining operations controlled with fabric filters, scrubbers, mist collectors, wet collectors, and electrostatic precipitators with a design grain loading of less than or equal to 0.03 grains per actual cubic foot and a gas flow rate less than or equal to 4000 actual cubic feet per minute, including the following: deburring, buffing, polishing, abrasive blasting, pneumatic conveying, and woodworking operations;
- (j) mold release agents using low volatile products (vapor pressure less than or equal to 2 kilopascals measured at 38 degree C);
- (k) farm operations;
- (l) one (1) inspection and bowl trap glazing booth, identified as B7P4M1, with overspray controlled by Baghouses B7C1 and B7C5;
- (m) one (1) inspection booth, identified as B10AP4M1, with overspray controlled by Baghouse B10DC1;
- (n) one (1) inspection and reconditioning booth, identified as B10DP4M1, with overspray controlled by Baghouse B10DC1;
- (o) mold making activities;
- (p) one (1) silo containment system, with dust controlled by a passive baghouse, identified as B5C1;
- (q) one (1) reclaim crusher, with dust controlled by Baghouse B5C3;
- (r) one (1) blunger, with dust controlled by a passive baghouse, identified as B5C2; and
- (s) glaze mix-up operation, with dust controlled by a filter system.
- (t) one (1) fired ware inspection and patch booth, identified as B10AP4M2, with overspray controlled by Baghouse B10DC1;
- (u) four (4) natural gas space heaters, each rated at 0.375 MMBtu per hour;
- (v) one (1) bowl base grinder, exhausting through the baghouse B10DC1;
- (w) one (1) lavatory base grinder, exhausting through the baghouse B10DC1; and
- (x) one (1) fired ware crusher.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) for a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permit Conditions Superseded [326 IAC 2]

This permit supersedes the operating conditions of all construction and operating permits issued to this stationary source under 326 IAC 2 prior to the effective date of this FESOP.

## SECTION D.1

## FACILITY OPERATION CONDITIONS

- (a) two (2) 3.92 million British thermal units per hour natural gas fired firing kilns, identified as K-1 and K-2, each with a maximum capacity of processing 0.76 tons of ceramic per hour, and each exhausting through two (2) stacks (ID Nos. B10CS1 and B10CS2 for K-1, ID Nos. B10BS7 and B10BS9 for K-2);
- (b) one (1) 28 million British thermal units per hour natural gas fired firing/refiring kiln, identified as RK-1, with a maximum capacity of firing 0.77 tons of ceramic per hour or refiring 0.578 tons of ceramic per hour, and exhausting through two (2) stacks (ID Nos. B10CS3 and B10CS4);
- (c) one (1) tank casting and scraping operation, identified as B2P3T, with a maximum capacity of processing 133 tanks per hour, located in Building B2;
- (d) one (1) bowl casting and scraping operation, identified as B3P3B, with a maximum capacity of processing 288 bowls per hour, located in Building B3;
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- (h) one (1) bowl casting and scraping operation, identified as B4P3B, with a maximum capacity of processing 56 bowls per hour, located in Building B4;
- (i) one (1) manual glaze spray booth, identified as B7P5M1, with a maximum capacity of spraying 450 pounds of glaze per hour, using a baghouse, identified as B7C2, for overspray control, exhausting at one (1) stack (ID No. B7);
- (j) one (1) manual glaze spray booth, identified as B7P5M2, with a maximum capacity of spraying 450 pounds of glaze per hour, using a baghouse, identified as B7C3, for overspray control, and exhausting at one (1) stack (ID No. B7);
- (k) one (1) double automated glaze spray booth, identified as B7P5A1, with a maximum capacity of spraying 2550 pounds of glaze per hour, using a baghouse, identified as B7C5, for overspray control, and exhausting at one (1) stack (ID No. B7S22);
- (l) one (1) automated glaze spray booth, identified as B7P5A2, with a maximum capacity of spraying 1275 pounds of glaze per hour, using a waterwash for overspray control, and exhausting at one (1) stack (ID No. B7S1);
- (m) one (1) automated glaze spray booth, identified as B7P5A3, with a maximum capacity of spraying 1275 pounds of glaze per hour, using a waterwash for overspray control, and exhausting at one (1) stack (ID No. B7S2); and
- (o) one (1) double automated glaze spray booth, identified as B7P5A4, with a maximum capacity of spraying 2550 pounds of glaze per hour, using a baghouse, identified as B7C5, for overspray control, and exhausting at one (1) stack (ID No. B7S22).

### Emission Limitations and Standards [326 IAC 2-8-4(1)]

#### D.1.1 Particulate [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes), the allowable particulate emission rates from the facilities covered under Section D.1 shall not exceed the emission rates listed below when the facilities are operated at the listed corresponding maximum process weight rate:

Source ID	Source Description	Allowable Emissions (lb/hr)	Maximum Process Weight Rate (ton/hr)
(a) K-1	Firing Natural Gas Fired Kiln	0.40	0.76
(a) K-2	Firing Natural Gas Fired Kiln	0.40	0.76
(b) K-3	Firing Natural Gas Fired Kiln	0.29	0.55
(c) K-4	Firing Natural Gas Fired Kiln	1.36	2.59
(d) B2P3T	Tank Casting Scraping	1.81	2.35
(e) B3P3B	Bowl Casting Scraping	10.35	4.67
(f) B4P3U	Urinal Casting Scraping	0.29	0.10
(g) B4P3T	Tank Casting Scraping	2.25	2.91
(h) B4P3L	Lavatory Casting Scraping	0.38	0.68
(i) B4P3B	Bowl Casting Scraping	2.01	0.91
(j) B7P5M1	Manual Glaze Booth	0.09	0.84
(k) B7P5M2	Manual Glaze Booth	0.09	0.84
(l) B7P5A1	Double Automated Glaze Booth	0.52	4.78
(m) B7P5A2	Automated Glaze Booth	3.90	2.39
(n) B7P5A3	Automated Glaze Booth	3.90	2.39
(o) B7P5A4	Double Automated Glaze Booth	4.82	1.275

#### D.1.2 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

### Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

#### D.1.3 Visible Emissions Notations

- Once per shift visible emission notations of the stack exhausts of all facilities covered under Section D.1 shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

- (e) The Preventive Maintenance Plan for these units shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

#### D.1.4 Parametric Monitoring

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The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the glaze spray booths B7P5M1, B7P5M2, B7P5A1 and B7P5A4 at least once per shift when the glaze spraying processes in these booths are in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the baghouses shall be maintained within the range of 1.0 and 3.0 inches of water or a range established during the latest stack test. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

#### D.1.5 Baghouse Inspections

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An inspection shall be performed in the last month of each calendar quarter of all bags controlling the facilities covered under D.1, when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

#### D.1.6 Broken Bag or Failure Detection

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In the event that bag failure has been observed:

- (a) The affected compartments will be shut down immediately until the failed units have been repaired or replaced.
- (b) Based upon the findings of the inspection, any additional corrective actions will be devised within eight (8) hours of discovery and will include a timetable for completion.

#### D.1.7 Raw Material (Clay) Usage

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The raw material usage (dry clay) processed by this source shall be limited to 36,135 tons of dry clay per 12 consecutive month period. This limitation includes all equipment listed in Sections D.1 and D.2 of the FESOP. Compliance with Operation Conditions D.1.1, D.1.7 and D.2.1 shall also render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70 Program) not applicable.

### **Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]**

#### D.1.8 Record Keeping Requirements

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- (a) To document compliance with Condition D.1.3, the Permittee shall maintain records of once per shift visible emission notations of the stack exhausts of all facilities covered under Section D.1.
- (b) To document compliance with Condition D.1.4, the Permittee shall maintain the following:
  - (1) Weekly records of the following operational parameters during normal operation:
    - (A) Inlet and outlet differential static pressure; and

- (B) Cleaning cycle: frequency and differential pressure.
- (2) Documentation of all corrective actions implemented, per event.
- (3) Operation and preventive maintenance logs, including work purchases orders, shall be maintained.
- (4) Quality Assurance/Quality Control (QA/QC) procedures.
- (5) Operator standard operating procedures (SOP).
- (6) Manufacturer's specifications or its equivalent.
- (7) Equipment "troubleshooting" contingency plan.
- (c) To document compliance with Condition D.1.5, the Permittee shall maintain records of the results of the inspections required under Condition D.1.5.
- (d) To document compliance with Condition D.1.7, the Permittee shall maintain records of the monthly clay usage.
- (e) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

#### D.1.9 Reporting Requirements

A quarterly summary of the information to document compliance with Condition D.1.7, shall be submitted to the address listed in Section C - General Reporting Requirements, of this permit, using the reporting forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the quarter being reported.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
OFFICE OF AIR QUALITY  
COMPLIANCE DATA SECTION**

**FESOP Quarterly Report**

Source Name: Peerless Pottery, Inc.  
Source Address: North Lincoln Avenue, Rockport, Indiana 47635  
Mailing Address: North Lincoln Avenue, P.O. Box 145, Rockport, Indiana 47635  
FESOP No.: F147-15536-00010  
Facility: Source wide material usage  
Parameter: PM/PM10  
Limit: 36,135 tons of raw material (dry clay) per 12 consecutive month period

YEAR: \_\_\_\_\_

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

## **Indiana Department of Environmental Management Office of Air Quality**

### **Technical Support Document (TSD) for a Significant Permit Revision to a Federally Enforceable State Operating Permit**

#### **Source Background and Description**

<b>Source Name:</b>	<b>Peerless Pottery, Inc.</b>
<b>Source Location:</b>	<b>North Lincoln Avenue, Rockport, Indiana 47635</b>
<b>County:</b>	<b>Spencer</b>
<b>SIC Code:</b>	<b>3261</b>
<b>Operation Permit No.:</b>	<b>F147-7890-00010</b>
<b>Operation Permit Issuance Date:</b>	<b>December 12, 1997</b>
<b>Permit Revision No.:</b>	<b>SPR147-17424-00010</b>
<b>Permit Reviewer:</b>	<b>Linda Quigley/EVP</b>

The Office of Air Quality (OAQ) has reviewed a revision application from Peerless Pottery, Inc. relating to the operation of stationary vitreous china plumbing fixtures manufacturing plant.

#### **History**

On June 16, 2003, Peerless Pottery, Inc. submitted an application to the OAQ requesting to add an additional double automated glaze spray booth to their existing plant. Peerless Pottery, Inc. was issued a FESOP on December 12, 1997.

#### **New Emission Units and Pollution Control Equipment**

one (1) double automated glaze spray booth, identified as B7P5A4, with a maximum capacity of spraying 2550 pounds of glaze per hour, using a baghouse, identified as B7C5, for overspray control, and exhausting at one (1) stack (ID No. B7S22);

#### **Existing Approvals**

The source was issued a FESOP F147-7890-00010 on December 12, 1997. The source has since received the following:

AA 147-12985-00010, issued on January 12, 2001.

#### **Enforcement Issue**

There are no enforcement actions pending.

#### **Recommendation**

The staff recommends to the Commissioner that the Significant Permit Revision be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on June 16, 2003.

### Emission Calculations

See Appendix A of this document for detailed emissions calculations, one page.

### Unrestricted Potential To Emit of Modification

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA.”

Pollutant	Potential To Emit (tons/year)
PM	106.11
PM-10	106.11
SO <sub>2</sub>	0.00
VOC	0.00
CO	0.00
NO <sub>x</sub>	0.00

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM<sub>10</sub> from this modification is equal to or greater than 25 tons per year. Therefore, the FESOP is being revised through a Significant Permit Revision pursuant to 326 IAC 2-8-11.1. This FESOP Significant Permit Revision will give the source approval to construct and operate the new emission units.

The source has agreed to limit PM<sub>10</sub>. Therefore, the source will remain in compliance with 326 IAC 2-8..

- (b) Fugitive Emissions  
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD applicability.

### Limited Potential to Emit

The table below summarizes the total potential to emit, reflecting all limits, of the significant emission units.

	Limited Potential to Emit (tons/year)							
Process/facility	PM	PM-10	SO <sub>2</sub>	VOC	CO	NO <sub>x</sub>	Single HAP	Total HAPs
double automated glaze booth	1.06	1.06	0.00	0.00	0.00	0.00	0.00	0.00
Existing emissions*	75.55	75.65	0.01	4.49	35.15	7.26	4.72	4.75
Total Emissions	< 100	< 100	< 100	< 100	< 100	< 100	< 10	< 25

\* Based on information provided by the source for FESOP renewal application (F147-12985-00010).

### County Attainment Status

The source is located in Spencer County.

Pollutant	Status
PM-10	attainment
SO <sub>2</sub>	attainment
NO <sub>2</sub>	attainment
Ozone	attainment
CO	attainment
Lead	attainment

Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Spencer County has been designated as attainment or unclassifiable for ozone.

### Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

### State Rule Applicability - Entire Source

#### 326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

This source is not subject to the requirements of this rule. As shown in the Potential to Emit After Issuance table on page 2 above, PM emissions, as a result of a control device and raw material usage limitation per 326 IAC 2-8-4 (FESOP), shall be limited to less than 250 tons per twelve (12) consecutive month period. All other pollutants are limited to less than 100 tons per year to comply with 328 IAC 2-8. Therefore, the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) will not apply.

**326 IAC 2-4.1-1 (New Source Toxics Control)**

Pursuant to 326 IAC 2-4.1-1 (New Source Toxics Control), any new process or production unit, which in and of itself emits or has the PTE 10 tons per year of any HAP or 25 tons per year of the combination of HAPs, and is constructed or reconstructed after July 27, 1997, must be controlled using technologies consistent with Maximum Achievable Control Technology (MACT). No HAPs will be emitted as a result of this modification. Therefore, the requirements of 326 IAC 2-4.1-1 (New Source Toxics Control) still do not apply to this source.

**326 IAC 2-6 (Emission Reporting)**

This source is located in Spencer County which is not one of the specifically listed counties, nor does this FESOP source have the potential to emit CO, VOC, NO<sub>x</sub>, PM10 (including fugitive emissions), or SO<sub>2</sub> in amounts at or exceeding one-hundred (100) tons per year. Therefore, the requirements of 326 IAC 2-6 still do not apply to the source.

**326 IAC 2-8-4 (FESOP)**

This source is subject to 326 IAC 2-8-4 (FESOP). Pursuant to this rule, the following limits shall apply:

- (a) The raw material usage (dry clay) processed by this source shall be limited to 36,135 tons of dry clay per 12 consecutive month period. This limitation includes all equipment listed in Sections D.1 and D.2 of the FESOP. This limit is required to limit the source-wide potential to emit of PM10 to less than 100 tons per twelve (12) consecutive month period, with compliance determined at the end of each month, such that the requirements of 326 IAC 2-7 (Part 70) are not applicable.
- (b) The uncontrolled potential to emit of SO<sub>2</sub>, NO<sub>x</sub>, VOC and CO are each less than one hundred (100) tons per year. This source therefore does not need to limit SO<sub>2</sub>, NO<sub>x</sub>, VOC or CO emissions to comply with 326 IAC 2-8-4 (FESOP).

**326 IAC 5-1 (Opacity Limitations)**

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

**State Rule Applicability - Individual Facilities**

**326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes)**

Pursuant to 326 IAC 6-3-2 (Particulate Emission Limitations for Manufacturing Processes) the particulate from the double automated glaze booth, shall be limited to 4.82 pounds per hour when operating at a process weight rate of 1.275 tons per hour based on the following:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

Source ID	Source Description	Process Weight Rate (ton/hr)	Allowable Emissions (lb/hr)	Controlled Emissions (lb/hr)	Compliance with 326 IAC 6-3-2 (Y/N)
B7P5A4	Double Automated Glaze Booth	1.275	4.82	0.24	Y

#### 326 IAC 6-4 (Fugitive Dust Emissions)

This source is subject to 326 IAC 6-4 for fugitive dust emissions. Pursuant to 326 IAC 6-4 (Fugitive Dust Emissions), fugitive dust shall not be visible crossing the boundary or property line of a source. Observances of visible emissions crossing property lines may be refuted by factual data expressed in 326 IAC 6-4-2(1), (2) or (3).

#### Testing Requirements

Testing is not required for the glaze application booth because emissions were based on AP-42 emission factors.

#### Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

1. The double automated glaze application booth has applicable compliance monitoring conditions as specified below:

- (a) Visible emission notations of the stack exhaust for the double automated glaze spray booth, shall be performed at least once per shift during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.
- (b) The Permittee shall record the total static pressure drop across the baghouse used in conjunction with the glaze spray booth (B7P5A4), at least once per shift when the glaze spray booth is in operation. When for any one reading, the pressure drop across the baghouse is outside the normal range of 1.0 and 3.0 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C- Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.
- (c) An inspection shall be performed in the last month of each calendar quarter of all bags controlling the facilities covered under D.1, when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

These monitoring conditions are necessary because the baghouse for the glaze spray booth must operate properly to ensure compliance with 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) and 326 IAC 2-8 (FESOP).

## Changes Proposed

The changes listed below have been made to the Federally Enforceable State Operating Permit (F147-7890-00010). Bolded language has been added and the language with a line through it has been deleted.

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

- (a) two (2) 3.92 million British thermal units per hour natural gas fired firing kilns, identified as K-1 and K-2, each with a maximum capacity of processing 0.76 tons of ceramic per hour, and each exhausting through two (2) stacks (ID Nos. B10CS1 and B10CS2 for K-1, ID Nos. B10BS7 and B10BS9 for K-2);
- (b) one (1) 28 million British thermal units per hour natural gas fired firing/refiring kiln, identified as RK-1, with a maximum capacity of firing 0.77 tons of ceramic per hour or refiring 0.578 tons of ceramic per hour, and exhausting through two (2) stacks (ID Nos. B10CS3 and B10CS4);
- (c) one (1) 20 million British thermal units per hour natural gas fired firing kiln, identified as K-4, with a maximum capacity of processing 2.59 tons of ceramic per hour, and exhausting through two (2) stacks (ID Nos. B10aS1 and B10aS2);

- (d) one (1) tank casting and scraping operation, identified as B2P3T, with a maximum capacity of processing 133 tanks per hour, located in Building B2;
- (e) one (1) bowl casting and scraping operation, identified as B3P3B, with a maximum capacity of processing 288 bowls per hour, located in Building B3;
- (f) one (1) urinal casting and scraping operation, identified as B4P3U, with a maximum capacity of processing 8 urinals per hour, located in Building B4;
- (g) one (1) tank casting and scraping operation, identified as B4P3T, with a maximum capacity of processing 165 tanks per hour, located in Building B4;
- (h) one (1) lavatory casting and scraping operation, identified as B4P3L, with a maximum capacity of processing 66.2 lavatories per hour, located in Building B4;
- (i) one (1) bowl casting and scraping operation, identified as B4P3B, with a maximum capacity of processing 56 bowls per hour, located in Building B4;
- (j) one (1) manual glaze spray booth, identified as B7P5M1, with a maximum capacity of spraying 450 pounds of glaze per hour, using a baghouse, identified as B7C2, for overspray control, exhausting at one (1) stack (ID No. B7);
- (k) one (1) manual glaze spray booth, identified as B7P5M2, with a maximum capacity of spraying 450 pounds of glaze per hour, using a baghouse, identified as B7C3, for overspray control, and exhausting at one (1) stack (ID No. B7);
- (l) one (1) double automated glaze spray booth, identified as B7P5A1, with a maximum capacity of spraying 2550 pounds of glaze per hour, using a baghouse, identified as B7C5, for overspray control, and exhausting at one (1) stack (ID No. B7S22);
- (m) one (1) automated glaze spray booth, identified as B7P5A2, with a maximum capacity of spraying 1275 pounds of glaze per hour, using a waterwash for overspray control, and exhausting at one (1) stack (ID No. B7S1); ~~and~~
- (n) one (1) automated glaze spray booth, identified as B7P5A3, with a maximum capacity of spraying 1275 pounds of glaze per hour, using a waterwash for overspray control, and exhausting at one (1) stack (ID No. B7S2); ~~and~~
- (o) one (1) double automated glaze spray booth, identified as B7P5A4, with a maximum capacity of spraying 2550 pounds of glaze per hour, using a baghouse, identified as B7C5, for overspray control, and exhausting at one (1) stack (ID No. B7S22).**

## SECTION D.1

## FACILITY OPERATION CONDITIONS

- |     |   |
|-----|---|
| (a) | two (2) 3.92 million British thermal units per hour natural gas fired firing kilns, identified as K-1 and K-2, each with a maximum capacity of processing 0.76 tons of ceramic per hour, and each exhausting through two (2) stacks (ID Nos. B10CS1 and B10CS2 for K-1, ID Nos. B10BS7 and B10BS9 for K-2); |
| (b) | one (1) 28 million British thermal units per hour natural gas fired firing/refiring kiln, identified as RK-1, with a maximum capacity of firing 0.77 tons of ceramic per hour or refiring 0.578 tons of ceramic per hour, and exhausting through two (2) stacks (ID Nos. B10CS3 and B10CS4);                |
| (c) | one (1) 20 million British thermal units per hour natural gas fired firing kiln, identified as K-4, with a maximum capacity of processing 2.59 tons of ceramic per hour, and exhausting through two (2) stacks (ID Nos. B10aS1 and B10aS2);   |
| (d) | one (1) tank casting and scraping operation, identified as B2P3T, with a maximum capacity of processing 133 tanks per hour, located in Building B2;   |
| (e) | one (1) bowl casting and scraping operation, identified as B3P3B, with a maximum capacity of processing 288 bowls per hour, located in Building B3;   |
| (f) | one (1) urinal casting and scraping operation, identified as B4P3U, with a maximum capacity of processing 8 urinals per hour, located in Building B4;   |
| (g) | one (1) tank casting and scraping operation, identified as B4P3T, with a maximum capacity of processing 165 tanks per hour, located in Building B4;   |
| (h) | one (1) lavatory casting and scraping operation, identified as B4P3L, with a maximum capacity of processing 66.2 lavatories per hour, located in Building B4;   |
| (i) | one (1) bowl casting and scraping operation, identified as B4P3B, with a maximum capacity of processing 56 bowls per hour, located in Building B4;  |
| (j) | one (1) manual glaze spray booth, identified as B7P5M1, with a maximum capacity of spraying 450 pounds of glaze per hour, using a baghouse, identified as B7C2, for overspray control,  |

(k)	exhausting at one (1) stack (ID No. B7); one (1) manual glaze spray booth, identified as B7P5M2, with a maximum capacity of spraying 450 pounds of glaze per hour, using a baghouse, identified as B7C3, for overspray control, and exhausting at one (1) stack (ID No. B7);
(l)	one (1) double automated glaze spray booth, identified as B7P5A1, with a maximum capacity of spraying 2550 pounds of glaze per hour, using a baghouse, identified as B7C5, for overspray control, and exhausting at one (1) stack (ID No. B7S22);
(m)	one (1) automated glaze spray booth, identified as B7P5A2, with a maximum capacity of spraying 1275 pounds of glaze per hour, using a waterwash for overspray control, and exhausting at one (1) stack (ID No. B7S1); and
(n)	one (1) automated glaze spray booth, identified as B7P5A3, with a maximum capacity of spraying 1275 pounds of glaze per hour, using a waterwash for overspray control, and exhausting at one (1) stack (ID No. B7S2); and
(o)	<b>one (1) double automated glaze spray booth, identified as B7P5A4, with a maximum capacity of spraying 2550 pounds of glaze per hour, using a baghouse, identified as B7C5, for overspray control, and exhausting at one (1) stack (ID No. B7S22).</b>

### Emission Limitations and Standards [326 IAC 2-8-4(1)]

#### D.1.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (~~Process Operations~~)(**Particulate Emission Limitations for Manufacturing Processes**), the allowable PM particulate emission rates from the facilities covered under Section D.1 shall not exceed the emission rates listed below when the facilities are operated at the listed corresponding maximum process weight rate:

Source ID	Source Description	Allowable Emissions (lb/hr)	Maximum Process Weight Rate (ton/hr)
(a) K-1	Firing Natural Gas Fired Kiln	0.40	0.76
(a) K-2	Firing Natural Gas Fired Kiln	0.40	0.76
(b) RK-1	Firing/Refiring Natural Gas Fired Kiln	2.16	0.77
(c) K-4	Firing Natural Gas Fired Kiln	1.36	2.59
(d) B2P3T	Tank Casting Scraping	1.81	2.35
(e) B3P3B	Bowl Casting Scraping	10.35	4.67
(f) B4P3U	Urinal Casting Scraping	0.29	0.10
(g) B4P3T	Tank Casting Scraping	2.25	2.91
(h) B4P3L	Lavatory Casting Scraping	0.38	0.68
(i) B4P3B	Bowl Casting Scraping	2.01	0.91
(j) B7P5M1	Manual Glaze Booth	0.09	0.84
(k) B7P5M2	Manual Glaze Booth	0.09	0.84
(l) B7P5A1	Double Automated Glaze Booth	0.52	4.78
(m) B7P5A2	Automated Glaze Booth	3.90	2.39
(n) B7P5A3	Automated Glaze Booth	3.90	2.39
<b>(o) B7P5A4</b>	<b>Double Automated Glaze Booth</b>	<b>4.82</b>	<b>1.275</b>

## Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

### D.1.3 Visible Emissions Notations

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- (a) ~~Daily~~ **Once per shift** visible emission notations of the stack exhausts of all facilities covered under Section D.1 shall be performed during normal daylight operations. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Preventive Maintenance Plan for these units shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

### D.1.4 Parametric Monitoring

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The Permittee shall record the total static pressure drop across the baghouses used in conjunction with the glaze spray booths B7P5M1, B7P5M2, ~~and B7P5A1, and B7P5A4~~ at least once ~~weekly~~ **per shift** when the glaze spraying processes in these booths are in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the baghouses shall be maintained within the range of 1.0 and 3.0 inches of water or a range established during the latest stack test. The Preventive Maintenance Plan for this unit shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge Specifications, of this permit, shall be subject to approval by IDEM, OAM, and shall be calibrated at least once every six (6) months.

### D.1.5 Baghouse Inspections

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~~An inspection shall be performed each calendar quarter of all bags controlling the facilities covered under Section D.1, excluding baghouses listed in D.1.4. All defective bags shall be replaced.~~

An inspection shall be performed in the last month of each calendar quarter of all bags controlling the facilities covered under D.1, when venting to the atmosphere. A baghouse inspection shall be performed within three months of redirecting vents to the atmosphere and every three months thereafter. Inspections are optional when venting indoors. All defective bags shall be replaced.

### D.1.7 Raw Material (Clay) Usage

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~~Usage of clay, which is the main ingredient of the products at the source, shall not exceed 3,014 tons per month of dry clay.~~ **The raw material usage (dry clay) processed by this source shall be limited to 36,135 tons of dry clay per 12 consecutive month period. This limitation includes all equipment listed in Sections D.1 and D.2 of the FESOP.** Compliance with Operation Conditions D.1.1, D.1.7 and D.2.1 shall also render the requirements of 326 IAC 2-2 (PSD) and 326 IAC 2-7 (Part 70 Program) not applicable.

#### D.1.8 Record Keeping Requirements

- (a) To document compliance with Condition D.1.3, the Permittee shall maintain records of ~~daily~~ **once per shift** visible emission notations of the stack exhausts of all facilities covered under Section D.1.

In addition, the Quarterly Report Form has been replaced with a new form (below) which records dry clay usage on a 12 consecutive month period basis.

### INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR QUALITY COMPLIANCE DATA SECTION

#### FESOP Quarterly Report

Source Name: Peerless Pottery, Inc.  
Source Address: North Lincoln Avenue, Rockport, Indiana 47635  
Mailing Address: North Lincoln Avenue, P.O. Box 145, Rockport, Indiana 47635  
FESOP No.: F147-15536-00010  
Facility: Source wide material usage  
Parameter: PM/PM10  
Limit: 36,135 tons of raw material (dry clay) per 12 consecutive month period

YEAR:

Month	Column 1	Column 2	Column 1 + Column 2
	This Month	Previous 11 Months	12 Month Total
Month 1			
Month 2			
Month 3			

9 No deviation occurred in this quarter.

9 Deviation/s occurred in this quarter.  
Deviation has been reported on: \_\_\_\_\_

Submitted by: \_\_\_\_\_  
Title / Position: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Date: \_\_\_\_\_  
Phone: \_\_\_\_\_

Attach a signed certification to complete this report.

#### Conclusion

This permit revision shall be subject to the conditions of the attached proposed FESOP Significant Permit Revision No. 147-17424-00010.

**Appendix A: Emissions Calculations  
Glaze Application**

**Company Name:** Peerless Pottery, Inc.  
**Source Location:** North Lincoln Avenue, Rockport, IN 47635  
**SPR #:** F147-17424  
**Pit ID:** 147-00010  
**Reviewer:** Linda Quigley/EVP  
**Application Rec.:** June 16, 2003

	Operation	Process Wt	Control Eff.	Emissions (ton/yr)					
		(ton/hr)	(%)	PM	PM10	SO2	NOx	VOC	CO
Emissions Factor (lb/ton)				19.00	19.00	0.00	0.00	0.00	0.00
	Double Automated Bo	1.275		106.11	106.11	0.00	0.00	0.00	0.00
	<b>TOTAL</b>			106.11	106.11	0.00	0.00	0.00	0.00
	Double Automated Bo	1.275	98%	1.06	1.06	0.00	0.00	0.00	0.00
	<b>TOTAL</b>			1.06	1.06	0.00	0.00	0.00	0.00

- (a) The source is using glaze that contains no VOC, HAPs or Lead material, therefore no VOC, HAP or Lead is emitted.  
(b) Controlled PM emissions from glazing operation is based on baghouse with 98% efficiency.

Methodology:

Potential Throughput (ton/yr) = Raw Material Input Capacity (ton/hr) x 8,760 hrs/yr

Emission Factors are from AP 42, Chapter 11.7, Tables 11.7-1, 11.7-2 SCC #3-05-008-50

Potential Emission (tons/yr) = Throughput (ton/hr) x Emission Factor (lb/ton)/2,000 lb/ton x 8760 hr/yr

Limited Emission (tons/yr) = Potential Emissions (ton/yr) x (1 - control efficiency) x usage limit (50%)